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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: W. McKinzie

Serial No.: 10/796,398

Conf. No.: 9029

Cust. No.: 33123

Filed: March 8, 2004

For: **SYSTEMS AND METHODS FOR  
BLOCKING MICROWAVE  
PROPAGATION IN PARALLEL  
PLATE STRUCTURES**

Art Unit: 2817

Examiner: Seungsook Ham



**CERTIFICATE OF MAILING PURSUANT TO 37 CFR 1.8**

I hereby certify that this correspondence and the attached papers are being deposited with the United States Postal Service with sufficient postage as first class mail on the date indicated below in an envelope addressed to:

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450, on

12-12-05  
Date

  
Signature

**INFORMATION DISCLOSURE STATEMENT  
IN ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 to inform the Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§ 1.97-1.98. Form PTO/SB/08 (4 pages) and a copy of the cited non patent literature is provided herewith in connection with the above-captioned application. The cited references that comprise issued U.S. patents are not attached, per the Notice of waiver published in the Official Gazette on August 5, 2003.

The documents listed on the attached Form PTO/SB/08 include communications from a foreign patent office in connection with a counterpart foreign application. Copies of the communications, International Search Report for International PCT Application PCT/US05/13235 and International Search Report for International PCT Application PCT/US05/06785, are also provided. All documents listed on the attached Form PTO/SB/08 are in the English language, hence, in

**U.S. Serial No. 10/796,398**  
**W. McKinzie**  
**Information Disclosure Statement**  
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accordance with the requirements of 37 C.F.R. § 1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Although these documents and information are made known to the Patent and Trademark Office in compliance with Applicants' duty of disclosure, such disclosure is not to be construed as an admission by Applicants or Applicants' representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(b) exists.

Applicants respectfully request that the Examiner review the foregoing references and request that they be made of record in the file history of the above-captioned application.

A check in the amount of \$180.00 is enclosed as required under 37 CFR 1.17(p). The Commissioner is hereby authorized to charge any fee, including any submitted herewith if the attached check(s) is in the wrong amount or otherwise improper or missing, that may be due in connection with this and the attached papers, or with this application during its entire pendency to or to credit any overpayment to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,  
HELLER EHRMAN LLP

By: Alan C. Gordon

Alan C. Gordon

Registration No. 51,220

**Address all correspondence to:**

David A. Hall

HELLER EHRMAN LLP

4350 La Jolla Village Drive, 7<sup>th</sup> Floor

San Diego, CA 92122-1246

Telephone: (858) 450-8400 Facsimile: (858) 450-8499

Email: [david.hall@hellerehrman.com](mailto:david.hall@hellerehrman.com)

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

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## Complete if Known

Application Number	10/796,398
Filing Date	03/08/2004
First Named Inventor	W. McKinzie
Art Unit	2817
Examiner Name	Seungsook Ham
Attorney Docket Number	42372-0004

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A	US- 6,538,538		03-25-2003	Hreish et al.	
B	US- 6,075,485		06-13-2000	Lilly et al.	
C	US- 6,061,025		05-09-2000	Jackson et al.	
D	US- 6,262,495		07-17-2001	Yablonovitch et al.	
E	US- 6,411,261		06-25-2002	Lilly	
F	US- 6,476,771		11-05-2002	McKinzie, III	
G	US- 6,501,427		12-31-2002	Lilly et al.	
H	US- 6,512,494		01-28-2003	Diaz et al.	
I	US- 6,525,695		02-25-2003	McKinzie, III	
J	US- 6,542,342		04-01-2003	Hayashi et al.	
K	US- 6,567,048		05-20-2003	McKinzie et al.	
L	US- 6,590,531		07-08-2003	McKinzie, III et al.	
M	US- 6,670,932		12-30-2003	Diaz et al.	
N	US- 6,646,605		11-11-2003	McKinzie, III et al.	
O	US- 6,690,327		02-10-2004	McKinzie, III et al.	
P	US- 6,768,476		07-27-2004	Lilly et al.	
Q	US- 6,774,866		08-10-2004	McKinzie, III et al.	
R	US- 6,774,867		08-10-2004	McKinzie, III et al.	
S	US- 6,831,602		12-14-2004	McKinzie, III et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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Sheet 2 of 4

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Application Number	10/796,398
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First Named Inventor	W. McKinzie
Art Unit	2817
Examiner Name	Seungsook Ham
Attorney Docket Number	42372-0004

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		Number-Kind Code <sup>2</sup> (if known)			
T	US- 6,867,746		03-15-2005	Mendolia et al.	
U	US- 6,888,316		05-03-2005	Seo et al.	
V	US- 6,897,831		05-24-2005	McKinzie, III et al.	
W	US- 6,906,674		06-14-2005	McKinzie, III et al.	
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AF	US- 2005/0029632 A1		02-10-2005	McKinzie, III et al.	
AG	US- 5,973,929		10-26-1999	Arakawa et al.	
AH	US- 5,451,917		09-19-1995	Yamamoto et al.	
	US-				

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Sheet	3	of	4	Attorney Docket Number	42372-0004

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AI	International Search Report dated April 19, 2005, for International Application No. PCT/US05/13235.	
	AJ	International Search Report dated October 21, 2005, for International Application No. PCT/US05/06784.	
	AK	Abhari et al., "Suppression of Parallel-Plate Noise in High Speed Circuits Using a Metallic Electromagnetic Band-Gap Structure", 2002 IEEE MTT-S Intl. Microwave Symp. Digest,	
		pp. 493-496, Seattle, WA, June 2-7, 2002.	
	AL	Daniel R. Sievenpiper, "High-Impedance Electromagnetic Surfaces," dissertation, UCLA Electrical Engineering Dept., filed January 1999.	
	AM	Abhari et al., "Metallo-Dielectric Electromagnetic Bandgap Structures for Suppression and Isolation of the Parallel-Plate Noise in High Speed Circuits,"	
		IEEE Trans. MTT, Vol. 51, No. 6, June 2003.	
	AN	Kamgaing et al., "High-Impedance Electromagnetic Surfaces for Parallel-Plate Mode Suppression in High Speed Digital Systems", IEEE 11th Topical Meeting on Electrical	
		Performance of Electronic Packaging (EPEP), Monterey, CA, Oct. 21-23, 2002.	

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	AO	Kamgaing et al., "A Novel Power Plane with Integrated Simultaneous Switching Noise Mitigation Capability Using High Impedance Surface," IEEE Microwave and Wireless Components Letters, Vol. 13, No. 1, January 2003.	
		Components Letter, Vol. 13, No. 1, January 2003.	
	AP	Kamgaing et al., "Inductance-Enhanced High-Impedance Surfaces for Broadband Simultaneous Switching Noise Mitigation in Power Planes,"	
		2003 IEEE MTT-S Intl. Microwave Symp. Digest, pp. 2165-2168, Philadelphia, PA, June 8-13, 2003.	
	AQ	Kamgaing et al., "Development and Application fo Physics-based Compact Models for High-Impedance Electromagnetic Surfaces Integrated in a Power Plane Configuration",	
		IEEE Intl. Antennas and Propagation Symp., Vol. 4, pp. 442-445, Columbus, OH, June 22-27, 2003.	
	AR	Lee, Thomas H., "A Vertical Leap for Microchips" Scientific America, p. 9-18, January 2002	

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